09-191-04

PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

olication No.:

10/787.381

Filing Date:

February 26, 2004

Applicant:

Mertens et al.

Group Art Unit:

Unknown

Examiner:

Unknown

Title:

HYDROGEN STORAGE SYSTEM MATERIALS AND INCLUDING HYDRIDES AND

METHODS HYDROXIDES

Attorney Docket:

GP-304820 (8540R-83)

Director of the United States Patent and Trademark Office P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

#### INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

#### I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

#### II. COPIES

A X Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cross-referenced pending U.S. application listed below in Section IV, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. \_\_\_\_ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

#### U.S. Serial Number U.S. Filing Date

- $C\_X$  Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R.  $\S$  1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.
- D. \_\_\_ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. If the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

### III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

- A\_X Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).
  - B.\_\_\_\_ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):
    - See the attached foreign patent office communication from a counterpart foreign application.
    - 2.\_\_\_English translations are provided.
    - 3.\_\_\_Other:
  - C. \_\_\_\_The following additional information is provided for the Examiner's consideration.

#### IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. X The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

<u>Serial No.</u>	Filing Date	Art Unit
10/787,292	02/26/04	Unknown
10/787,617	02/26/04	Unknown

#### V. THIS IDS IS BEING FILED UNDER

#### A\_X\_ 37 C.F.R. § 1.97(b): (check only one box)

- within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
- 2. \_\_\_\_ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
- 3. <u>X</u> before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
- before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

#### B. \_\_\_\_37 C.F.R. § 1.97(c): (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

- No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
- See the certification below. No fee is required.

#### C. \_\_\_\_37 C.F.R. § 1.97(d):

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

 See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

## from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS. VII. STATEMENT UNDER 37 CFR 1.704(d) The undersigned hereby states that: each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS. VIII. PAYMENT OF FEES (check only one box)

A. \_\_\_\_ A check in the amount of \$180.00 is enclosed for the above-identified

B. \_\_\_\_Please charge Deposit Account No. 07-0960 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

Serial No. 10787.381
ALL REFERENCES CONSIDERED EXCEPT WHERE LINED TPAGO UGH. /PW/

CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

A. \_\_\_\_ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filling of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII,

B. \_\_\_\_\_ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See

C. \_\_Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication.

The undersigned hereby certifies that:

if applicable; or

fee.

37 C.F.R. § 1.97(e)(2)).

VI.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 07-0961.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 07-0960.

Respectfully submitted,

Dated: September 28, 2004

Linda M. Deschere Reg. No. 34,811

HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

LDES/saf

٠. . المب

10/787,381

February 26, 2004

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Application Number

Filing Date

TRANSMITTAL

FORM

Alexandria, VA 22313-1450 on the date shown below.

Linda M. Deschere

Typed or printed name

(to be used for all correspondence after initial filling)		First Named Inventor Merte		Merter	ns et al.	
		al filing)	Aı	t Unit	Unknown	
			E	caminer Name	Unknown	
Total Number of Pages	otal Number of Pages in This Submission		At	torney Docket Number	GP-30	14820 (8540R-83)
		ENCLO	SUI	RES (check all that apply)		
Fee Transmittal Form		☐ Drawing	g(s)			er Allowance Communication to chnology Center (TC)
Fee Attached		Licensing-related Papers		Appeal Communication to Board of Appeals and Interferences		
Amendment / Rep	oly	Petition	1		Api (Ap	peal Communication to TC speal Notice, Brief, Reply Brief)
After Final				Convert to a Application	Pro	prietary Information
Affidavits/declaration(s)				ttorney, Revocation Correspondence Address	Status Letter	
Extension of Time Request		Terminal Disclaimer		Other Enclosure(s) (please identify below):		
Express Abandonment Request		Request for Refund  CD, Number of CD(s)			Form HDP-1449 with 8 Cited References attached; and return receipt postcard.	
Information Disclo	sure Statement					
Certified Copy of Document(s)	Priority ·	Remarks The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 07-0960. A duplicate copy of this sheet is enclosed.				
Response to Miss				Account No. 07-0500.	A dupito	ate copy of this sheet is enclosed.
Response to Missing Parts under 37 CFR 1.52 or 1.53						
	SIGNA	TURE OF A	۱PP	LICANT, ATTORNEY, OF	RAGEN	ІТ
Firm or Individual name Harness, Dickey & Pierce, P.L.C		Э.	Attorney Name Linda M. Deschere		Reg. No. 34,811	
Signature		K	_			-
Date	September 28, 2004					
	C	EDTIEICAT	E /	E TRANSMICEION/MAIL	INC	

Signature Date September 28, 2004 Signiture

This collection of Information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confideratily is governed by 35 U.S.C. 122 and 37 CFR 1.1.4. This collection is estimated to 12 minutes to complete including platening properties, and submitting the completed application from the USPTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this border, about be sent to the Chief Information Officer, U.S. Palent and Trademark Office. U.S. Department of Commerce 2.0 Exist (std., Alaxanding, Val. 2331 1-460. DO NOT SEND PRESS OF COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Palentis, P.O., Box 123 U.S. Department of Commerce 2.0 Exist and Trademark Officer. U.S. Palent and Trademark Offic

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450,

Express Mall Label No.

EV 531 990 003 US



## FORM HDP-1449 (Based on Form PTO-1449)

# PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET No.	SERIAL NO.
GP-304820 (8540R-83)	10/787,381
APPLICANT	
Mertens et al	
FILING DATE	GROUP
02/26/04	Unknown

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		20030129126	07/10/2003	Chen et al.		
2.		20030129122	07/10/2003	Chen et al.		
3.		20030113252	06/19/2003	Chen et al.		
4.		5,678,410	10/21/1997	Fujita et al.		
5.		6,015,041	01/18/2000	Heung		
6.		6,159,538	12/12/2000	Rodriguez et al.		
7.		6,267,229	07/31/2001	Heung		
8.		6,329,076	12/11/200	Kawabe et al.		
9.		6,342,198	01/29/2002	Zaluska et al.		
10.		6,419,764	07/16/2002	Kamiya et al.		
11.		6,432,379	08/13/2002	Heung		
12.		6,444,361	09/03/2002	Komori et al.		

FOREIGN PATENT DOCUMENTS								
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No	
1.		EP 0 989 290 A2	3/29/2000	EPO				

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examiner's Initials				
1.		Sandia National Labs, "Hydride Materials Data Base" website, pp. 1 - 4, printed 3/12/2004.			

1.		Sandia National Labs, "Hydride N	faterials Data Base" website,	pp. 1 - 4; printed 3/12/20
Examiner	:	/Paul Wartalowicz/	Date Considered	04/26/2008

#### FORM HDP-1449 (Based on Form PTO-1449)

#### PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Sheet 2 of 2

SERIAL NO.	
10/787,381	
GROUP	
Unknown	
	10/787,381 GROUP

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examiner's Initials				
2.		Hera "Storage of Hydrogen In Reversible Metal Hydrides" pp. 1 - 3; printed March 17, 2004.			
3.		Pinkerton, et al., "Bottling The Hydrogen Genie", The Industrial Physicist, American Institute of Physics; pp. 20 - 23 (Feb/March 2004).			
4.		CHEN, Ping, XIONG, Zhitao, LUO, Jizhong, LIN, Jianyi, TAN, Kuang Lee. "Hydrogen Storage in Metal Nitride Systems". Edited by Ricardo B. Schwartz, Symposium V, Materials for Energy Storage, Generation and Transport, Vol. 730, April 2-4, 2002, pp. 376 and 385, VS.18.			
5.		Herbert JACOBS and Robert JUZA, "Preparations and Properties of Magnesium Amide and Imide" Journal for Anorganic and General Chemistry, Band [Vol.] 870 (1969) pages 254-261. (English translation only; original German not available.)			
6.		CHEN, Ping, XIONG, Zhitao, LUÖ, Jizhong, LIN, Jianyi, TAN, Kuang Lee. "Interaction of Hydrogen with Metal Nitrides and Imides" Nature Publishing Group [Vol. 420] (November 21, 2002) pp. 302-304 with Supplement pages 1-6.			
7.		Robert JUZA and Kart OPP, "Metal Amides and Metal Nitrades, 25th Part 1), Journal for Anorganic and General Chemistry. 1951 Band Volume 266, pp. 325-330. (2 documents: English translation and original German.)			

				_
Examiner:	/Paul Wartalowicz/	Date Considered:	04/26/2008	